

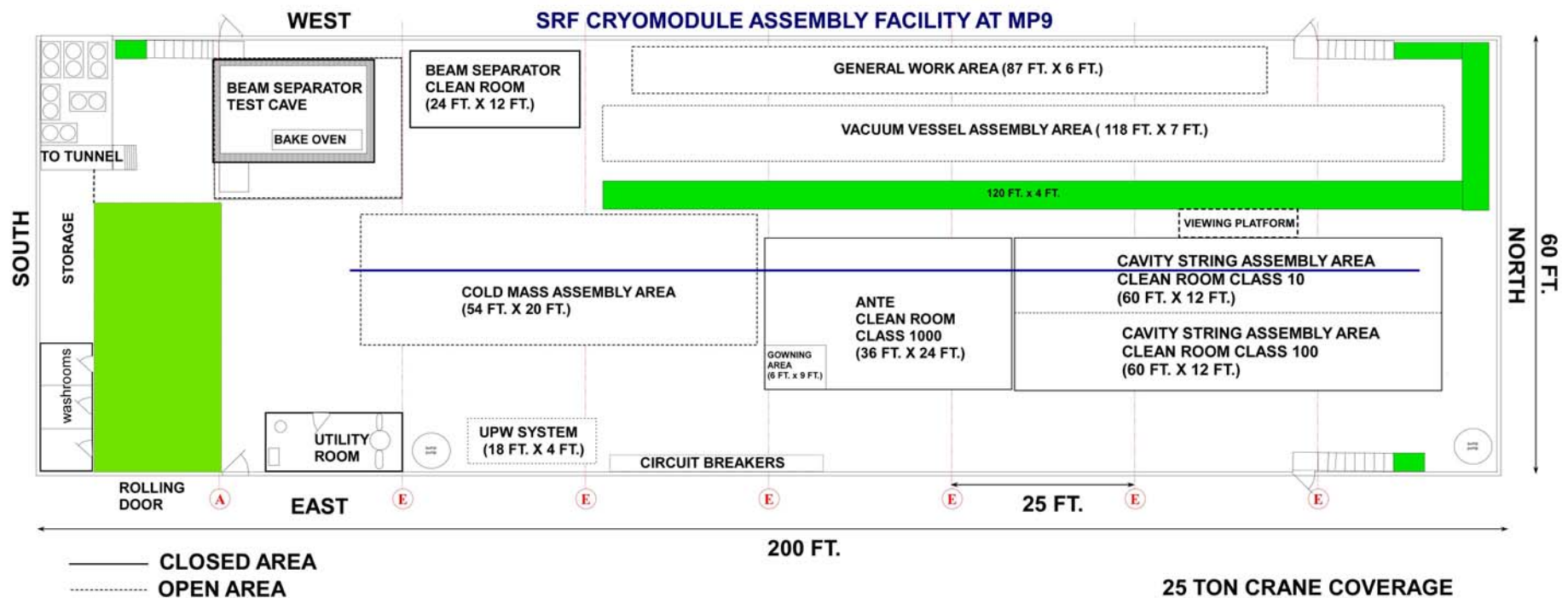
Cryomodule Assembly Facility (CAF) Setup Status

Tug Arkan

February 8, 2006

CAF Infrastructure Plans at MP9

1.3 GHz Elliptical Cryomodules Assembly Facility (CAF) Infrastructure at MP9





January 15, 2006





Current Procurement Status

- **Cavity String Assembly Rail System:**
\$85K

- ☐ Received, currently stored at MP9

- **Cold Mass Assembly Fixture:** \$31K

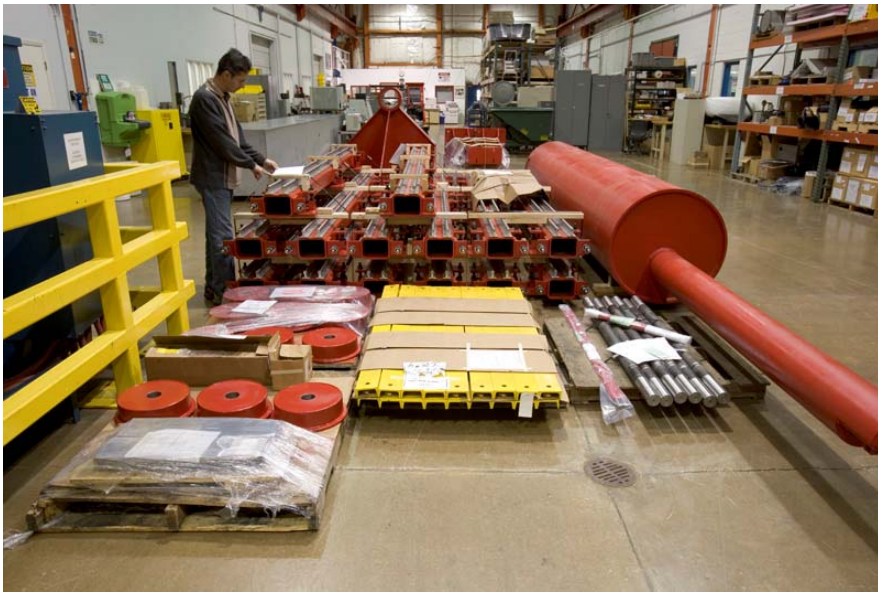
- ☐ Received, currently stored at IB4

- **Vacuum Vessel Assembly Fixture:**
\$105K

- ☐ Received, currently stored at CDF

Total: \$221K Spent/Obligated in FY05







Cavity String Assembly Clean Rooms Procurement

- Pre-design meeting was held with the vendor at FNAL on October 7, 06.
- Design was completed by the middle of November 06.
- Two weeks long lab-wide DP-18 design review was completed on December 5, 06.
 - All the comments were responded and addressed by the vendor.
- Procurement of the material / equipment to fabricate the clean room components was started by the vendor.
- Construction was started on January 12:
 - All ES&H and JHA issues are resolved
- 70-80 days construction period:
 - Construction manager: Wayne Bayes, Luwa's superintendent
 - Construction coordinator: Glenn Smith, TD
- Turnover of the clean rooms to Fermilab by the vendor: First week of April 06.
- (\$957K) Obligated in FY05 + ~\$30K change orders in FY06





Construction Daily Log

Construction of Clean room at MP-9

11 Jan 06

Wednesday

Wayne Bays of LUWA arrived from Houston, Texas. Wayne had GERT and General Contractor orientation at TD ES&H given by Rich Ruthe. A meeting was set for 10:30 with Tug Arkan, Romesh Sood, Gary Lorenz, John Zweibohmer, Greg Kobliska, Rich Ruthe, Glenn Smith and Wayne Bays to discuss HA's and the importance of getting them completed in a timely manner and reviewed. Wayne felt that he should have them completed with in ten days.

The rail system was set in place at MP-9 and the alignment was started, Kurt Kasules was called to survey the floor for in ground electrical conduits and marked the floor with red tape, we were informed not to drill with in 6" of either side of the mark with out performing LOTO on the circuits. After the rails were surveyed the stands were marked and the holes were drilled for later placement.

12 Jan 06

Thursday

MP-9 personnel continued to drill holes for rail system. Pandecon's supervisor Ron Pansing had 5/8" drywall delivered to MP-9 along with metal wall studs and ceiling joists. MP-9 employees unloaded both trucks with the crane and forklift. Wayne submitted training records from the 3 employees of Pandecon , all needed refresher training to bring there records up to date. The HA for the installation of the walls was submitted and approved

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6 Feb 06

Monday

Dry wall continues, temporary lighting has been installed. The HVAC people have delivered their equipment and parts, they have signed the HA's and a tool box inspection was held everything looked OK.

7 Feb 06

Tuesday

Inner Dry walling is coming to a completion, taping should start on Wednesday. The HVAC people are started and doing well. The man lift has been delivered and the Fermilab fire techs will start demoing the riser on the East side of the building on Wednesday. Gary Lorenz has submitted the Electrical work permit to remove the outlets on the East side as well.



Fixtures Installation Plans & Schedule

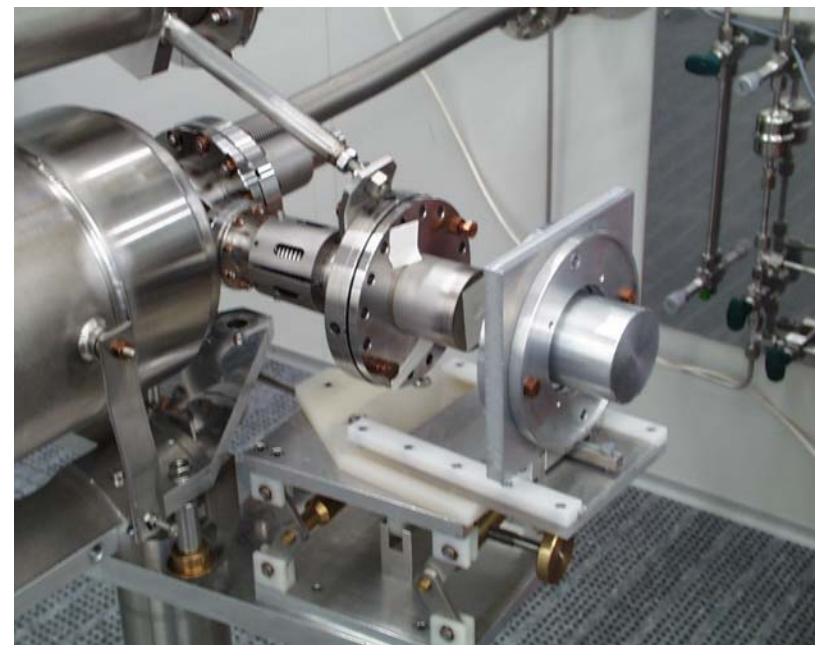
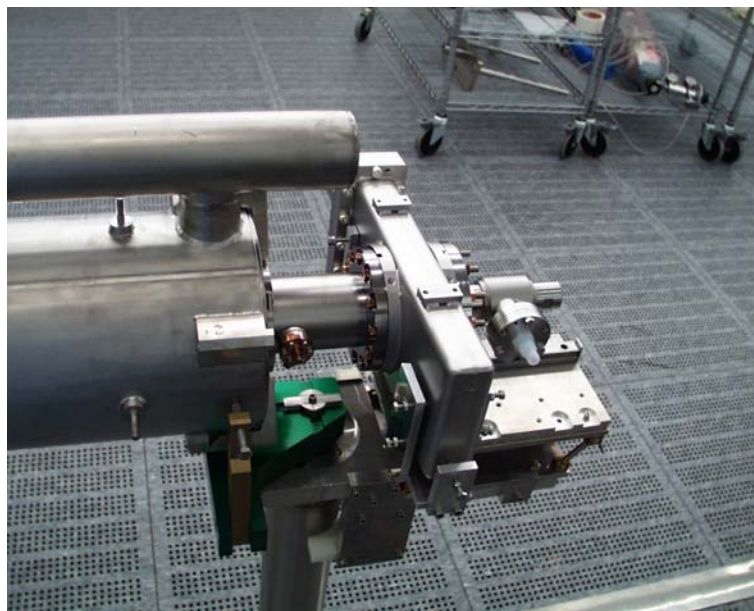
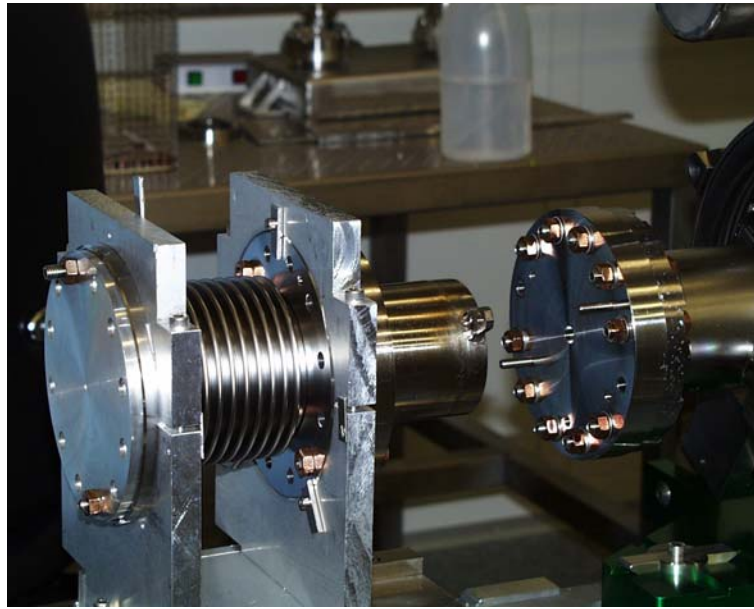
- Cavity String Assembly Rail System need to be installed before the clean room raised floor is put in place. The rail system will be underneath the clean room Class 10 area extending through Class 1000 area to Cold Mass Assembly Area (non clean room) [Scheduled for the second week of March 06].
- Cold Mass Assembly and Vacuum Vessel Assembly Fixtures will be installed in April 06 after the clean rooms construction is completed.
- Cavity String Assembly Fixtures are being currently designed /Americanized from DESY drawings. We plan to install them in May 06 when the clean rooms are operational.



FY06 Procurement Plans for CAF

- MP9 Building Floor Epoxy coating (\$25K) [completed]
- MP9 Building inside ceiling cleaning (\$10K) [completed]
- Construction of the clean rooms: (\$80K)
 - T&M work to tie the clean rooms to the MP9 house power (\$20K)
 - Fire sprinkler tie-in (\$5K)
 - Metasys DDC Controls network for the clean rooms (\$5K)
 - Clean room consultant services (\$25K)
- Complete remaining fixturing: (\$225K)
 - Cavity String Assembly Fixturing ~30 fixtures [35% completed]
 - Additional Fixturing & Tooling
- UPW (\$20K)
- Equipment & components for the clean rooms: (\$125K)
 - Vacuum hardware (\$50K)
 - Clean room attire & furniture (\$25K)
 - Ultrasonic cleaner (\$50K) [bidding will close on 2/23/06]
 - Portable clean room (\$10K)
 - Clean room cart for cavity transport (\$15K)
- Miscellaneous (\$40K)

Total: \$475K





1st Cryomodule Assembly Plans

- Cavity String Assembly Procedures & Fixtures Learning at DESY (February 20 –March 3, 06)
- CAF Clean Rooms operational: April 06
- Cryomodule Assembly Procedures Learning at DESY & Zanon (April-May 06)
- CAF Infrastructure ready & operational: May-June 06
- Assemble 1st Cryomodule (4 months): Start date depends when we receive the kit from DESY